```
 M   C   P   S   Q   P   T   Y   P   G   D   P   G   P
ATG TGC CCG AGC CAG CCG ACC TAT CCG GGC GAT CCC GGG CCG

 V   E   D   L   I   R   F   Y   D   N   L   Q   Q   W
GTG GAA GAT CTG ATC CGC TTT TAT GAT AAC CTG CAG CAG TGG

 L   N   C   V   T   A   A   C   *
CTG AAC TGC GTG ACC GCC GCC TGC TAG
```

FIGURE 1

4868768.1

```
1           11          21          31          41
ACACACCATA TGTGCCCGAG CCAGCCGACC TATCCGGGCG ATCCCGGGCC
TGTGTGGTAT ACACGGGCTC GGTCGGCTGG ATAGGCCCGC TAGGGCCCGG

51          61          71          81          91
GGTGGAAGAT CTGATCCGCT TTTATGATAA CCTGCAGCAG TGGCTGAACT
CCACCTTCTA GACTAGGCGA AAATACTATT GGACGTCGTC ACCGACTTGA

101         111         121         131
GCGTGACCGC CGCCTGCTAG GGATCCACAC AC
CGCACTGGCG GCGGACGATC CCTAGGTGTG TG
```

FIGURE 2

EP 0 879 888 A1

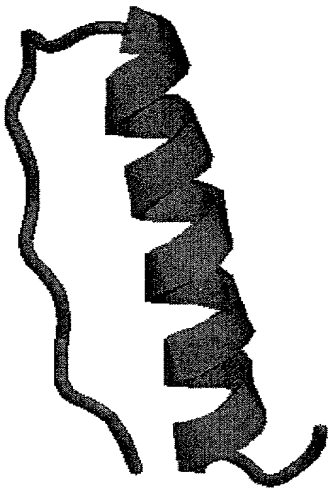

FIGURE 3

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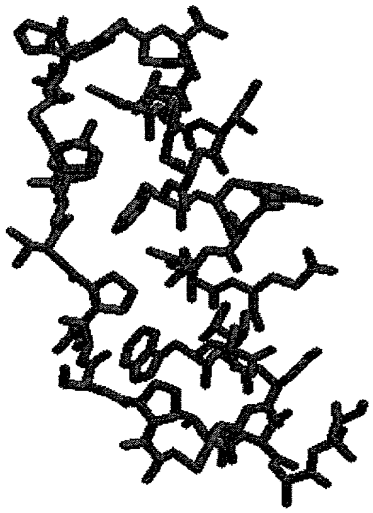

FIGURE 4

PCT/US2003/041934

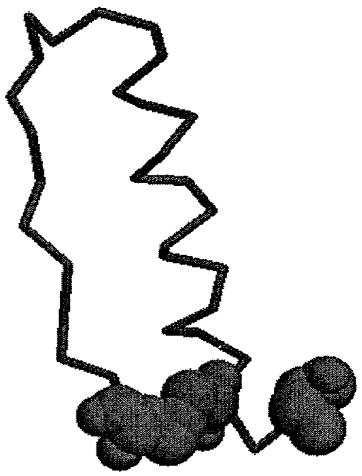

FIGURE 5

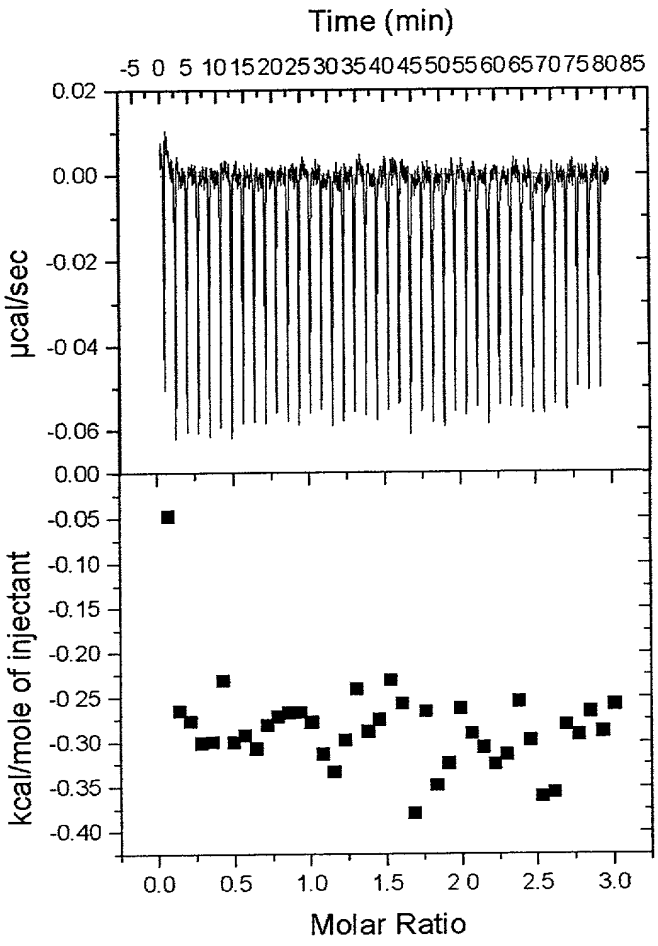
Time (min)
-5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85
0.02
0.00
-0.02
-0 04
-0.06
µcal/sec
0.00
-0.05
-0.10
-0.15
-0.20
-0 25
-0.30
-0.35
-0.40
kcal/mole of injectant
0.0
0.5
1.0
1.5
2 0
2.5
3.0
Molar Ratio

FIGURE 6

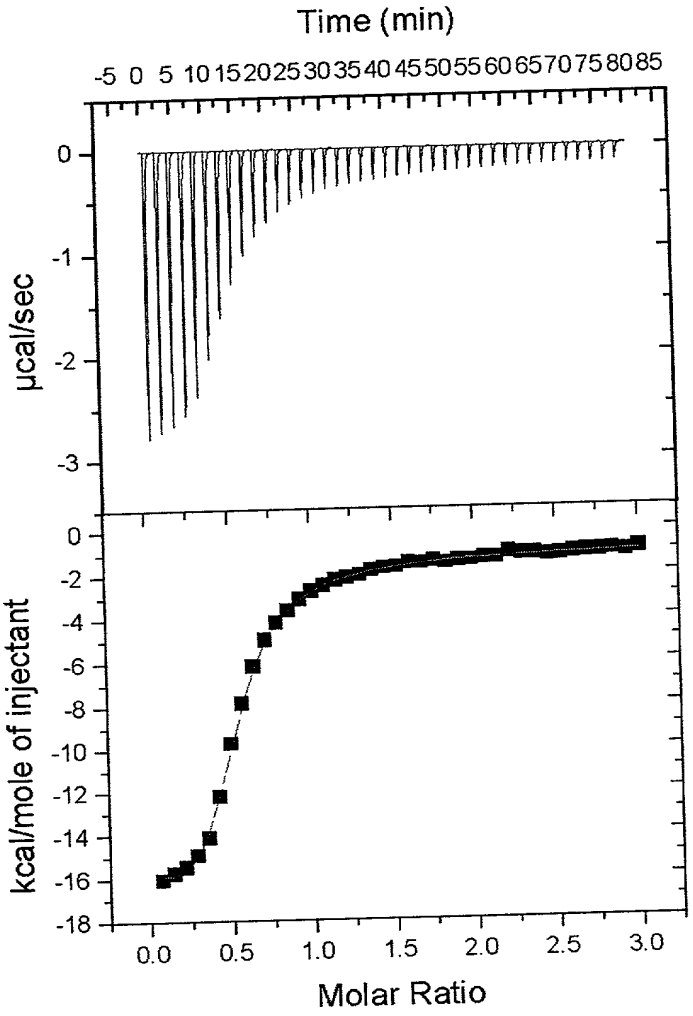
Time (min)
-5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85
0
-1
-2
-3
µcal/sec
0
-2
-4
-6
-8
-10
-12
-14
-16
-18
kcal/mole of injectant
0.0
0.5
1.0
1.5
2.0
2.5
3.0
Molar Ratio

FIGURE 7

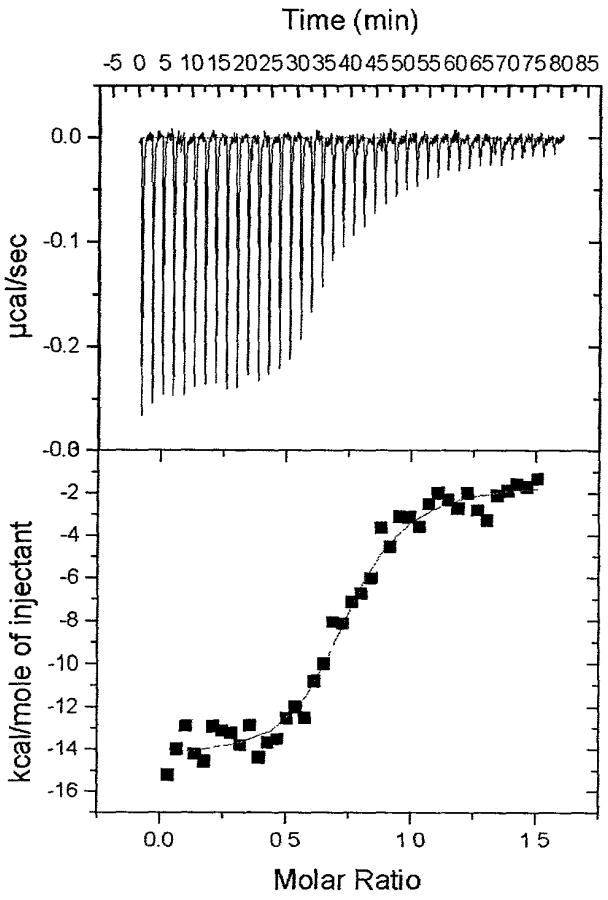
Time (min)
-5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85
0.0
-0.1
-0.2
µcal/sec
-2
-4
-6
-8
-10
-12
-14
-16
kcal/mole of injectant
0.0
0.5
1.0
1.5
Molar Ratio

FIGURE 8

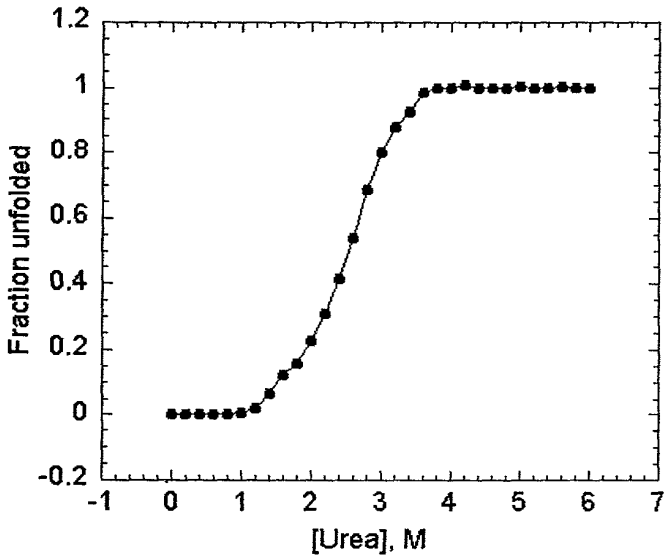

FIGURE 9

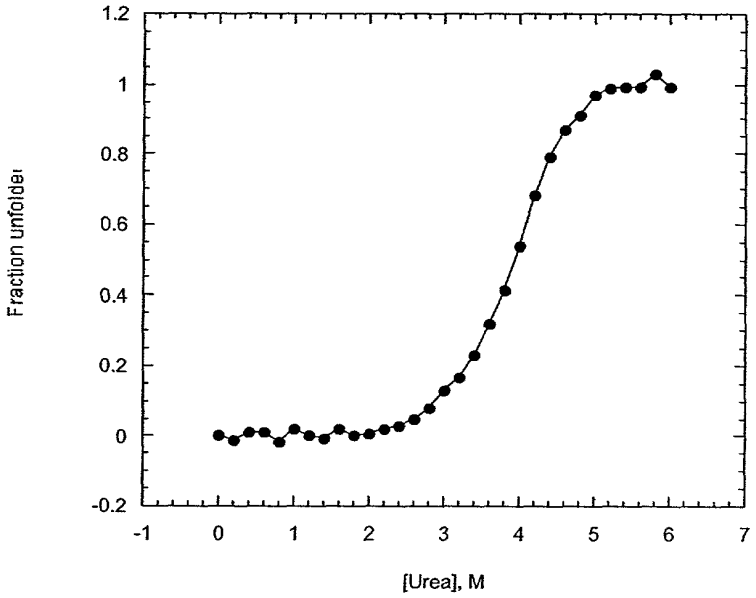

FIGURE 10

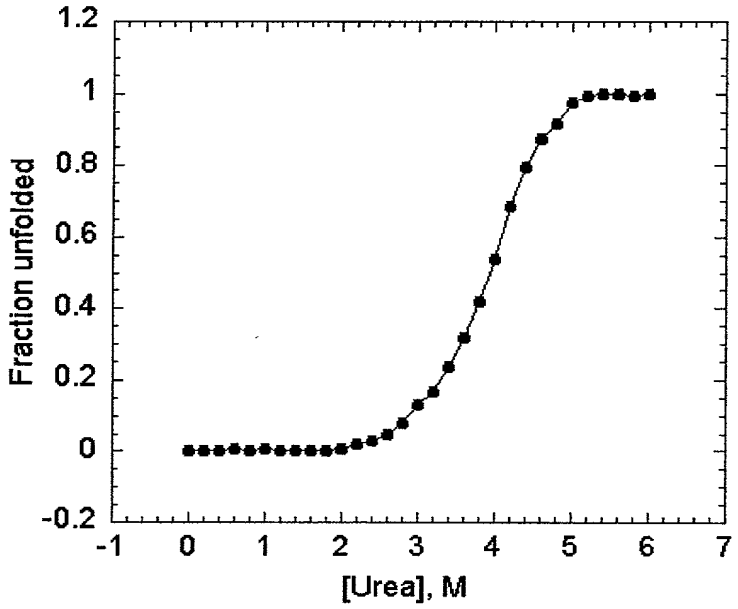

FIGURE 11

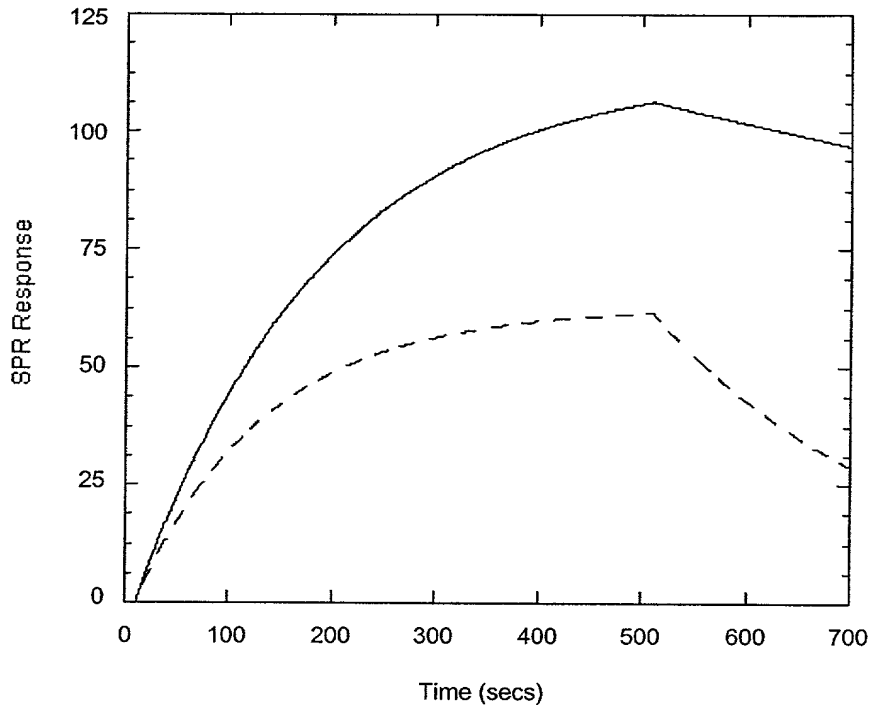
125
100
75
50
25
0
SPR Response
0
100
200
300
400
500
600
700
Time (secs)

FIGURE 12

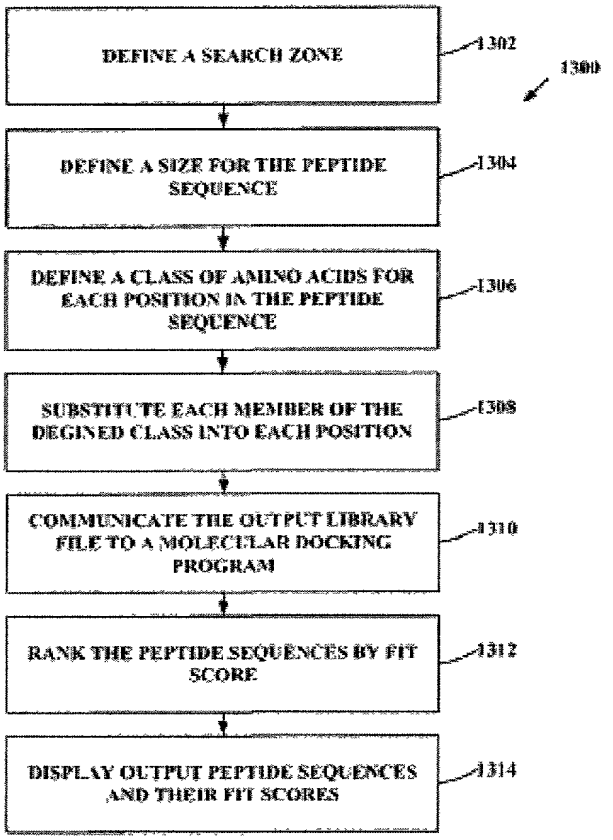
DEFINE A SEARCH ZONE
1302
1300
DEFINE A SIZE FOR THE PEPTIDE SEQUENCE
1304
DEFINE A CLASS OF AMINO ACIDS FOR EACH POSITION IN THE PEPTIDE SEQUENCE
1306
SUBSTITUTE EACH MEMBER OF THE DEGINED CLASS INTO EACH POSITION
1308
COMMUNICATE THE OUTPUT LIBRARY FILE TO A MOLECULAR DOCKING PROGRAM
1310
RANK THE PEPTIDE SEQUENCES BY FIT SCORE
1312
DISPLAY OUTPUT PEPTIDE SEQUENCES AND THEIR FIT SCORES
1314

FIG. 13

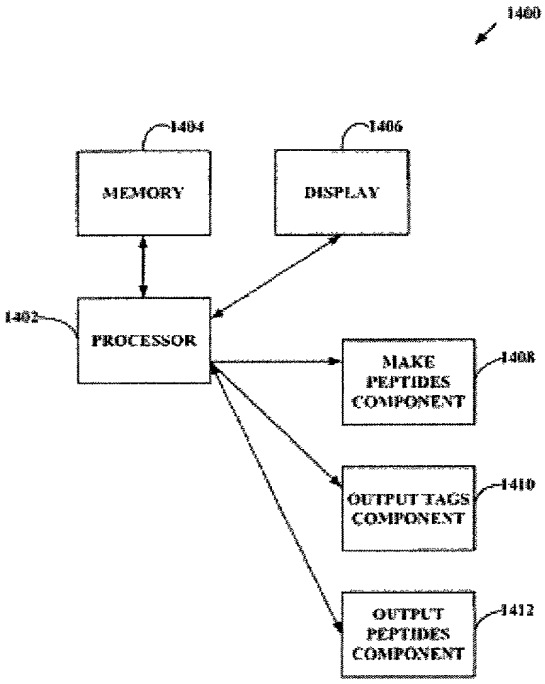
1400
1404
1406
MEMORY
DISPLAY
1402
PROCESSOR
MAKE PEPTIDES COMPONENT
1408
OUTPUT TAGS COMPONENT
1410
OUTPUT PEPTIDES COMPONENT
1412

FIG. 14

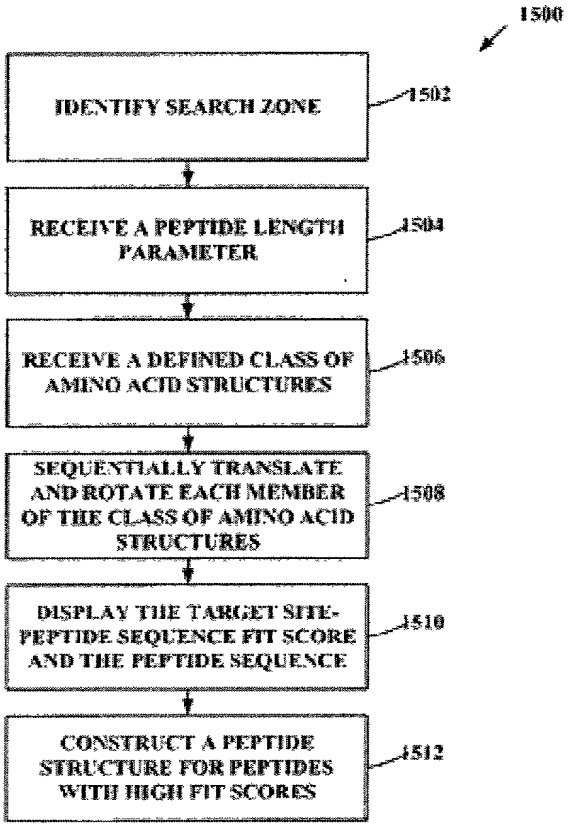
1500
IDENTIFY SEARCH ZONE
1502
RECEIVE A PEPTIDE LENGTH PARAMETER
1504
RECEIVE A DEFINED CLASS OF AMINO ACID STRUCTURES
1506
SEQUENTIALLY TRANSLATE AND ROTATE EACH MEMBER OF THE CLASS OF AMINO ACID STRUCTURES
1508
DISPLAY THE TARGET SITE-PEPTIDE SEQUENCE FIT SCORE AND THE PEPTIDE SEQUENCE
1510
CONSTRUCT A PEPTIDE STRUCTURE FOR PEPTIDES WITH HIGH FIT SCORES
1512

FIG. 15